

Cordelia Schmid – Curriculum Vitae

Education

- Habilitation, Computer Science, Institut National Polytechnique de Grenoble, November 2001. Dissertation: From image matching to learning visual models.
- PhD, Computer Science, Institut National Polytechnique de Grenoble, July 1996. Dissertation: Image matching and retrieval based on local greyvalue invariants, with distinction “Mention très honorable avec félicitations”. Advisor: Roger Mohr.
- M.S., Computer Science, University of Karlsruhe, July 1992, with distinction “sehr gut”.

Awards and distinctions

- Archimedes Science Award, Dresden, 2025.
- Hans Fischer Senior Fellowship, TUM, 2025.
- ACM Athena Lecturer Award, 2025.
- Member of the National Academy of Artificial Intelligence (NAAI), 2025.
- Heinrich-Hertz-Gastprofessur, Karlsruher Institut für Technologie (KIT), 2024.
- European Inventor Award 2024, category research, awarded by European Patent Office.
- Prix Monte-Carlo Femme de l’Année, 2024.
- Helmholtz award for fundamental contributions in computer vision that have withstood the test of time, 2023.
- Körber European Science Prize, 2023.
- Asia-Pacific Artificial Intelligence Association Fellow, 2022.
- PAMI Distinguished Researcher Award, 2021.
- Royal Society Milner award, 2020.
- Ellis Fellow, 2020.
- Koenderink prize for fundamental contributions in computer vision that have withstood the test of time, 2018.
- Member of the German National Academy of Sciences, Leopoldina, 2017.
- Grand Prix Inria-Académie des sciences, 2016.
- Humboldt research award, Alexander von Humboldt Foundation, Germany, 2015.
- Karen Spärck Jones lecture, annual event of the British Computer Society that honours women in computing research, 2015.
- Clarivate Analytics (former Thomson Reuters) Highly Cited Researcher, 2014, 2015, 2016 & 2017.
- Longuet-Higgins prize for fundamental contributions in computer vision that have withstood the test of time, 2006, 2014 & 2016.
- ERC advanced grant ALLEGRO, 2013.
- IEEE Fellow, 2012.
- Best paper award for the 2009 edition of the Pattern Recognition journal.
- Best poster prize, honorable mention, IEEE Conf. on Computer Vision and Pattern Recognition, 2008.
- Best paper award, honorable mention, Indian Conference on Computer Vision, Graphics and Image Processing, 2006.
- Best paper award, ISPRS Conf. on Automatic Extraction of GIS Objects from Digital Imagery, 1999.
- Best thesis award Institut National Polytechnique de Grenoble, 1997.

Challenges and competitions

- Winner of the 2022 Ego4D challenge for AV Transcription, in conjunction with ECCV 2022.
- Winner of the Epic-Kitchen Action Recognition Challenge, in conjunction with CVPR 2022.
- Winner of the REVERIE / Soon Challenge 2021, in conjunction with ICCV 2021.
- Winner of CVPR 2020 Video Pentathlon challenge.
- Winner of VOT-TIR 2015 tracking competition.
- Winner of Thumos 2014 action localization challenge.
- Winner of Thumos 2013 action classification challenge.
- Winner of TRECVID 2012 & 2013 multi-media event detection competition.
- Winner of TRECVID 2008 video copy detection competition.
- Winner of PASCAL Visual Object Classes Challenge Competitions, 2005–08, 10 & 11.

Employment

- Inria Research Director, second class 2004–2008, first class 2008–2015, exceptional class 2016—.
- Google Research Director, part-time 50%, 2018—.
- Head of the THOTH Inria team, 2016–2018.
- Head of the LEAR Inria team, 2003–2015.
- Research Scientist, Inria, 1997–2004.
- Research Assistant, Oxford University, Robotics Research Group, 1996–1997.
- Ph.D. Fellowship, Marie Curie EU grant and Inria grant, 1993–1996.

Supervision

- Currently supervising 8 PhD students; 49 PhD students have graduated, several with awards:
 - Longuet-Higgins award 2014 for K. Mikolajczyk
 - AFRIF PhD award 2014 for G. Cinbis
 - Longuet-Higgins award 2015 for N. Dalal
 - Longuet-Higgins award 2016 for S. Lazebnik
 - AFRIF PhD award 2019 and Ellis PhD award 2020 for G. Varol
 - ECVA Young Researcher Award 2021, Alfried Krupp Prize 2023, and ZukunftsWissen Award 2025 for Z. Akata
 - Google PhD Fellowship and AFRIF PhD award 2024 honorable mention for A. Yang
 - Prix de thèse du GdR Robotique 2025 for Q. Le Lidec
- Currently supervising 1 postdoc; 18 past postdocs; 13 past engineers.

Teaching

- Object recognition and computer vision, Master-2 MVA, ENS, 10 hours per year (equivalent 15hTD), 2008–2024.
- Object recognition, Master-2 Computer Science, Grenoble University, 10 hours per year (equivalent 15hTD), 2001–2004, 2007–2019.
- Image databases, 3rd year ENSIMAG, 12 hours per year, 2002–2003.
- Object oriented software development, 2nd year ENSIMAG, 40 hours per year, 2001–2003.
- Analysis of algorithms, 2nd year ENSIMAG and ESISAR, 80 hours per year, 1998–2001.

Editorial, conference and committee activities

- Editor-in-Chief: • International Journal of Computer Vision (2013–2018).
- Editorial Board: • Foundations and Trends in Computer Graphics and Vision (2005—).
• International Journal of Computer Vision (2004–2012).
• IEEE Trans. on Pattern Analysis and Machine Intelligence (2001–2005).
- General Chair: • European Conference on Computer Vision, 2026.
• International Conference on Computer Vision, 2023.
• European Conference on Computer Vision, 2020.
• IEEE Conference on Computer Vision and Pattern Recognition, 2015.
- Program Chair: • European Conference on Computer Vision, 2012.
• IEEE Conference on Computer Vision and Pattern Recognition, 2005.
- Workshop Chair: • Video AI Symposium, Paris, September 2025.
• GRAIL: Generalization in Robotics Manipulation Workshop and Challenges, in conjunction with CVPR 2025, Nashville, June 2025.
• Ellis Workshop on Comp. Vision & Machine Learning, BadTeinach, April 2025.
• Ellis Workshop for Computer Vision & Machine Learning, Modena, April 2024.
• Ellis Workshop for Comp. Vision & Machine Learning, Metzingen, May 2023.
• Structured Representations for Video Understanding, in conjunction with ICCV 2021 workshop, virtual, October 2021.
• Ellis Workshop for Computer Vision and Machine Learning, virtual, July 2021.
• Ellis Workshop for Computer Vision and Machine Learning, virtual, July 2020.
• Workshop on YouTube-8M Large-Scale Video Understanding, in conjunction with ICCV'19, Seoul, 2019.
• Ellis Workshop for Computer Vision and Machine Learning, San Sebastian, September 2019.
• Workshop on Artificial Intelligence, Horizon Maths, Paris, 2018.
• Workshop on Frontiers of Video Technology, San Jose, 2017.
• ALLEGRO Workshop on Weakly Supervised Learning and Video Recognition, Grenoble, 2014 & 2015.
• IPAM Workshop on Large Scale Multimedia Search, Los Angeles, US, 2012.
• CVPR'09 Workshop on Feature Detectors and Descriptors, 2009.
• Int. Workshop on Video, Barcelona, Spain, 2009.
• 4th Int. Workshop on Object Recognition, Como, Italy, 2008.
• 3rd Int. Workshop on Object Recognition, Siracusa, Italy, 2006.
• 2nd Int. Workshop on Object Recognition, Taormina, Italy, 2004.
• 1st Int. Workshop on Object Recognition, Taormina, Italy, 2003.
- Summer School Chair: • PRAIRIE Artificial Intelligence Summer School, Grenoble, 2018.
• Visual Recognition and Machine Learning Summer School, Paris, 2013.
• Visual Recognition and Machine Learning Summer School, Grenoble, 2012.
• Visual Recognition and Machine Learning Summer School, Paris, 2011.
• Visual Recognition and Machine Learning Summer School, Grenoble, 2010.

- Area Chair:
- IEEE International Conference on Computer Vision, 2003, 2005, 2009, 2013, 2015, 2017, 2019, 2021, 2025 (lead AC).
 - IEEE Conference on Computer Vision & Pattern Recognition, 2000, 2004, 2007, 2010, 2013, 2022, 2023 (senior AC), 2025 (senior AC), 2026 (lead AC).
 - European Conference on Computer Vision, 2002, 2004, 2008, 2010, 2016, 2018, 2022, 2024 (lead AC).
 - Congrès de Reconnaissance de Formes et Intelligence Artif., 2004, 2008, 2010.
 - Asian Conference on Computer Vision, 2007.
 - Neural Information Processing Systems, 2005, 2006, 2012, 2017, 2018 (senior AC), 2019 (senior AC), 2020 (senior AC), 2021, 2024 (senior AC).
 - International Conference on Machine Learning, 2018, 2025 (senior AC).
 - International Conference on Learning Representations, 2023 (senior AC), 2025 (senior AC), 2026 (senior AC).
- Award committee:
- ICLR award committee 2025.
 - Milner award, 2022—.
 - CVPR 2020 best paper award.
 - Oréal-UNESCO award France for Women in Sciences 2017.
 - Young researcher award 2014 & 2015.
 - Longuet-Higgins award 2015, 2019.
 - Helmholtz award 1987–1999, 2021.
 - ECCV 2008 best paper prize.
 - NIPS 2006 best student paper.

Research evaluation

- Reviewer and examiner for 60 PhD and 14 HDR theses.
- Member of Fellows Appointment Committee of the Tübingen ELLIS Institute, 2023—.
- Member of IEEE Computer Society and the Computer Vision Foundation CVPR/ICCV Steering committee, 2023—.
- Member of the Munich Center for Machine Learning (MCML) Advisory Board, 2023—.
- Member of TPAMI EIC search committee, 2021.
- Member of Technical Activities Board for International Foundation of Robotics Research, 2020—.
- Member of Scientific Advisory Committee of the Helmholtz AI Cooperation Unit, 2020—.
- Member of scientific advisory board for the German Competence Centers for AI Research, 2019—.
- Director of Ellis program on Computer Vision and Machine Learning, 2019—.
- Member of board of directors of the Computer Vision Foundation (CVF), 2016—.
- Member of a hiring committee at KTH, Stockholm, 2016.
- Member of a hiring committee at MPI Intelligent Systems, 2016.
- Member of a hiring committee at NTNU Trondheim, 2015.
- Member of the evaluation panel for ERC starting grants, 2014.
- Member of the PAMI-TC executive committee, 2014—.
- Member of the PAMI-TC awards committee, 2013—.
- Member of the “conseil d’AERES” (Agence d’évaluation de la recherche et de l’enseignement supérieur), 2007–2011.

- Member of the evaluation committee for audiovisual and multimedia projects of Agence Nationale de la Recherche (ANR), 2006 & 2007.
- Reviewer for ERC grants, European projects, VENI (Netherlands), FACR (Québec), ANR (France), ANVAR (France), Israel Science Foundation, Austrian Sciene Fund, Vienna Science and Technology Fund, Czech Science Foundation.

Evaluation Inria

- Member of the Inria-académie des sciences award committe, 2019 & 2020.
- Member of the “Comité scientifique”, Inria Grenoble, 2015–2019.
- Scientific organization of the Inria evaluation for theme “Vision, Perception and Multimedia Interpretation”, 2014.
- President of the Inria recruiting committee for Grenoble, 2009, 2010, 2013.
- Member of the “bureau du comité de projet”, Inria Grenoble, 2007–2011.
- Member of the “commission d’évaluation”, Inria, 2002–2011.
- Member of 17 Inria recruiting committees (12 CR and 5 DR recruiting committees), 2002–2011.
- Scientific organization of the Inria evaluation for theme “Cog B”, 2005.
- Representative for international relations at Inria Grenoble, 2005–2007.
- Member of the “commission emplois scientifiques” , Inria Grenoble, 2002–06.

Grants

- Prairie-PSAI chair, 2024–2029.
- Körber award research funding, 2023–2029.
- French-German ANR project with MPI Tübingen, 2021-2025.
- Prairie chair, 2019–2024.
- Research contract with Naver Labs Europe, 2017-2018.
- Intel Network on Intelligent Systems Gift, 2017 & 2018.
- Amazon Academic Research Award, 2017 & 2018.
- Adobe Gift, 2017.
- Facebook University Gift, 2015–2020.
- Google Research Award, 2015–2016.
- ERC advanced grant ALLEGRO, 2013–2019.
- Research contract with Xerox, 2011-2013, 2014–2017.
- EU integrated project AXES, 2011–2014.
- Industrial contract with MBDA on pose and object identification, 2010–2013.
- QUAERO search engine, French Grant “OSEO”, 2008–2013.
- “Géométrie algorithmique informationnelle et applications (GAIA)”, French Grant “ANR blanc”, 2007–2011. Grand prix ANR du numérique.
- Prototype for an image search engine, French Grant “GRAVIT”, 2007–2008.
- Inria associated team with CMU, UIUC and Willow/Inria, 2007–2009.
- Industrial contract with MBDA on object recognition and detection, 2007–2010.
- Cognitive-level annotation using latent statistical structure (CLASS), European Grant, 2006–2009.
- Integrating knowledge, semantics and content for user-centered intelligent media services (ace-Media), European IP Grant, 2004–2007.

- Pattern Analysis, Statistical Modeling and Computational Learning (PASCAL & PASCAL 2), “Network of Excellence”, European Grant, 2004–2012.
- Modèles visuels et statistiques pour la reconnaissance de classes d’images, French Grant “ACI masse de données”, 2003–2006.
- EADS postdoctoral grant on shape description, 2006.
- Industrial contract with MBDA on object detection and tracking, 2005–2006.
- CNRS/UIUC Grant with Professor J. Ponce, 2000–2006.
- Learning for Adaptable Visual Assistants (LAVA), EU IST Grant, 2002–2005.
- Video Browsing, Exploration and Structuring (VIBES), European Grant, FET, 2000–2004.
- Global Architecture for Indexing and Retrieval of Multimedia Documents (AGIR), French Grant, RNT, 1999–2001.
- Industrial contract with Aérospatiale on matching of aerial images and missile images, 1999–2001.
- Industrial contract with Alcatel on the development of a prototype for interactive video navigation, 1996–1998.

Patents & Transfer

- Patent. Automated video and audio annotation techniques. A. Nagrani, P. Seo, B. Seybold, A. Hauth, S. Manen, C. Sun, C. Schmid. Published 2023-08-10, WO/2023/149898A1.
- Patent. Attention Bottlenecks for Multimodal Fusion. A. Nagrani, S. Yang, A. Arnab, C. Schmid, C. Sun. GP-303150-00-US. Published 06/2023, US/2023/0177384A1.
- Patent, A. Arnab, M. Dehghani, G. Heigold, C. Sun, M. Lucic and C. Schmid. Systems and methods for improved video understanding. Published 01/2023, US/2023/0017072A1.
- Patent. Learning with Neighbor Consistency for Noisy Labels. A. Iscen, J. Valmadre, A. Arnab, C. Schmid. Published 03/2023, WO/2023037136A1.
- Patent. Improved Two-Stage Machine Learning for Imbalanced Datasets. A. Iscen, A. Araujo, B. Gong, C. Schmid. Published 08/2022, WO/2022/177581A1.
- Patent. Agent trajectory prediction using target locations. H. Zhao, J. Gao, T. Lan, C. Sun, B. Sapp, Y. Shen, Y. Chai, C. Schmid, C. Li, D. Anguelov. Published 02/2022, WO/2022/035602A2; Issue Date: 5/21/2024, Waymo Patent WAY-51584-00-US.
- Patent, C. Sun, A. Shrivastava, C. Schmid, R. Sukthankar, K. Murphy and C. Vondrick. Action localization using neural networks. Published 02/2020, WO/2020/033345A1.
- Patent, C. Schmid, S. Vijayanarasimhan, S. Ricco, B. Seybold, R. Sukthankar and K. Fragkiadaki. Determining structure and motion in images using neural networks. Published 06/2018, WO/2018/102717A1.
- Patent, V. Choutas, P. Weinzaepfel, J. Revaud and C. Schmid. System and method for training a convolutional neural network and classifying an action performed by a subject in a video using the trained convolutional neural network. Published 10/2019, US/2019/0303677. Transferred to Naver.
- Patent, Z. Akata, F. Perronnin, Z. Harchaoui and C. Schmid. Label-embedding view of attribute-based recognition. Published 12/2014, US/2014/0376804A1. Transferred to Xerox.
- Patent, H. Jégou, C. Schmid and M. Douze. Assistance device for image recognition. Published 07/2011, US/2011/0164822. Licensed to MilPix.
- Co-founder and scientific advisor of the Start-Up MilPix, 2008–2013. Transfer of image search technology, including image description and large-scale search software.
- Transfer of image classification software to the Start-Up WayWay, OMB Labs, 2014.

- Collaboration with Aerospatiale section of MBDA, 2004–2013: (i) In-depth report on research in object recognition, 2004; (ii) Transfer of image matching & point tracking software, 2005; (iii) PhD of H. Harzallah on vehicle recognition, 2007–2010; (iv) Innovation prize of MBDA for the PhD of H. Harzallah, 2010; (v) Research contract on object pose estimation, 2010–2013.
- Member of the scientific advisory board of IMRA-Europe, <http://www.imra-europe.com>, 2009–2013.
- Transfer of image retrieval and face recognition software to the Start-Up Adways, 2012.
- Transfer of face recognition software to the Start-Up Technosense, 2012.
- Transfer of product quantization software to Technicolor, 2011.
- Research license for image search software to Stanford University, San Diego University and California Institute of Technology, 2009.
- Transfer of image description software to KOLOR, 2009.

Dissemination & Mentoring

- Panelist in a roundtable with high school students at the Leopoldina annual meeting in Halle, September 2025.
- Panelist on *Artificial Intelligence in the service of humanity – (How) can we achieve that?*, Leopoldina annual meeting in Halle, September 2025.
- Intervention "Cette chercheuse donne des yeux à l'intelligence artificielle" au Paris-Saclay Summit Choose Science, February 2025. <https://www.youtube.com/watch?v=qBnrfS3kyI4&t=54s>
- Article "IA & Multimodalité : entretien avec Cordelia Schmid, spécialiste de la vision par ordinateur", ActuIA, 29/07/2024.
- Article "Cordelia Schmid, la chercheuse qui aide les ordinateurs à comprendre leur environnement", L'Usine Nouvelle, 11/07/2024.
- Article "Digitalisierung & KI: Cordelia Schmid", Eduard Müller, Tagesspiegel Background, 09/07/2024.
- Newspaper article "Prix de l'inventeur européen : cette chercheuse donne des yeux à l'intelligence artificielle", Héloïse Pons, Le Point, 13/07/2024.
- Newspaper article "Avant, l'ordinateur ne voyait rien", Célia Amphoux, Le Dauphiné libéré and Progrès, 18/06/2024.
- Sponsor (marraine) of the "Cérémonie des docteurs", Grenoble, June 2024.
- News article "Cordelia Schmid – Nominierte für den europäischen Erfinderpreis", Jasper Bennink, Research.Table & Europe.Table, 26/06/2024.
- Panelist on *CVPR: past, present, and future*, CVPR'24, June 2024.
- Newspaper article "Erfinderin bringt Maschinen das Sehen bei", Thomas Magenheim, Stuttgarter Zeitung, 04/06/2024.
- Panelist on *Future of AI*, Prairie Days in partnership with France Digitale, Station F, Paris, April 2024.
- Newspaper interview mit Cordelia Schmid, "Wenn Computer das Denken lernen", I. Micheler, WELT am Sonntag, Sonderausgabe WELT-Wirtschaftsgipfel, 11/02/2024.
- Newspaper article "Cordelia Schmid, pionnière de la vision par ordinateur", J.-B. Jacquin, Le Monde, 8/11/2023.
- Mentor at the Doctoral Consortium, in conjunction with CVPR'10, CVPR'14, ICCV'15, CVPR'16, ICCV'17, CVPR'19, ICCV'21, CVPR'22, ICCV'23, CVPR'24, ICCV'25.

- Mentor for female PhD students at the workshop “Women in Computer Vision”, in conjunction with CVPR’15, CVPR’17, CVPR’18, ECCV’18 & CVPR’19.
- Dinner speaker at the workshop “Women in Computer Vision”, in conjunction with CVPR’19.
- Participation in a round table on AI, a technology for innovation, forum 5i, Grenoble, May 2019.
- Animating several mentorship sessions at Women in Data Science Conference, Zürich, April 2019.
- Presentation at “An Evening with Google AI: Women in CV”, Sunnyvale, December 2018.
- Presentation on data for artificial intelligence at the Inria-Industry meeting, Paris, 2017.
- “Extraction d’informations à partir des images”, C. Schmid and J. Ponce. Les Big Data à Découvert. Editions du CNRS, 2017.
- Presentation on human action recognition in videos at the “Journées NeuroSTIC In’Tech 2016”, Grenoble, June 2016.
- Seminar for high school teachers on visual description and recognition, March 2013.
- “Automatic Recognition of Human Activities in Realistic Videos”, A. Gaidon, Z. Harchaoui and C. Schmid. ERCIM NEWS 95, October 2013.
- “De la reconnaissance de visages à l’interprétation de scènes complexes”, Françoise Breton and Cordelia Schmid. Article for the general public in ”20 ans Inria Grenoble”, 2012.
- Panel member and mentor at the workshop “Women in Machine Learning”, in conjunction with NIPS’11.
- Presentation on large-scale image search at “Journée d’échanges et de formation”, LERTI, Inria, Grenoble, September 2010.
- Panelist on *Future Directions of Computer Vision* at IEEE CVPR 2008.
- Presentation of LEAR’s image search demonstrator at the 2003, 2005 and 2006 “Fête de la Science”, Grenoble and at the Forum 4i, Grenoble, 2006.
- Interviewed and filmed for *Computer Vision: Fact and Fiction*, a DVD produced by UC San Diego aimed at high school students and the general public, 2005, <http://vision.ucsd.edu/cvd>.
- Presentation on image search at the INTECH seminar “recherche par le contenu de documents multi-médias”, Grenoble, 2002.
- Presentation on invariant image description at the Inria-Industry seminar, Rocquencourt, 2001.
- Demonstration of the “interactive video” software, “journées Rencontres Inria-Industrie”, 1998.
- Demonstration of the image retrieval software, CEBIT’96.

Invited presentations

Invited conference and workshop presentations

1. Invited speaker at Workshop on Multimodal Representation and Retrieval, in conjunction with ICCV'25, October 2025.
2. Festvortrag (ceremonial lecture) at Leopoldina annual meeting, Halle, September 2025.
3. Invited speaker at Video AI Symposium, Paris, September 2025.
4. Keynote at Building Bridge Conference, Dresden, 2025.
5. Invited speaker at Workshop on Pixel-level Vision Foundation Models, in conjunction with CVPR'25, June 2025.
6. Invited speaker at Workshop on Multimodal Algorithmic Reasoning, in conjunction with CVPR'25, June 2025.
7. Invited speaker at Workshop on ScanNet++ Novel View Synthesis and 3D Semantic Understanding, in conjunction with CVPR'25, June 2025.
8. Invited speaker at Workshop on Video Large Language Models, in conjunction with CVPR'25, June 2025.
9. Invited speaker at Workshop on Computer Vision in the Wild, in conjunction with CVPR'25, June 2025.
10. Festvortrag, KIT, Karlsruhe, October 2024.
11. Keynote speaker at Conference on Robot Learning (CORL), Munich, September 2024.
12. Invited speaker at Instance-Level Recognition Workshop, in conjunction with ECCV'24, October 2024.
13. Invited speaker at Tutorial on Video Content Understanding and Generation, in conjunction with ECCV'24, October 2024.
14. Keynote speaker at German Pattern Recognition Conference, Munich, September 2024.
15. Invited speaker at MMFM2: The 2nd Workshop on What is Next in Multimodal Foundation Models?, in conjunction with CVPR'24, June 2024.
16. Invited speaker at LPVL: Learning from Procedural Videos and Language: What is Next?, in conjunction with CVPR'24, June 2024.
17. Invited speaker at New Frontiers for Zero-Shot Image Captioning Evaluation (NICE) Workshop, in conjunction with CVPR'24, June 2024.
18. Invited speaker at Tool-Augmented VIision (TAVI) Workshop, in conjunction with CVPR'24, June 2024.
19. Invited speaker at the Ellis computer vision and machine learning workshop, April 2024.
20. Invited speaker at the Monaco Women Forum, March 2024.
21. Invited speaker at the WELT-Wirtschaftsgipfel, Berlin, January 2024.

22. Invited speaker at the 3rd NAVER LABS Europe International Workshop on AI for Robotics, Grenoble, November 2023.
23. Invited speaker at Workshop on New Ideas in Vision Transformers, in conjunction with ICCV'23, Paris, October 2023.
24. Invited speaker at Fifth Large-scale Video Object Segmentation Workshop, in conjunction with ICCV'23, Paris, October 2023.
25. Keynote speaker at Workshop "Fondements Mathématiques de l'IA", Paris, October 2023.
26. Invited speaker at Video AI Symposium, London, September 2023.
27. Presentation at Nature Webcast, September 2023.
28. Invited speaker at "T4V: Transformers for Vision" workshop, in conjunction with CVPR'23, June 2023.
29. Invited speaker at "Scholars & Big Models: How Can Academics Adapt?", in conjunction with CVPR'23, June 2023.
30. Invited speaker at Fourth International Workshop on Large Scale Holistic Video Understanding, in conjunction with CVPR'23, June 2023.
31. Invited speaker at New Frontiers for Zero-Shot Image Captioning Evaluation Workshop, in conjunction with CVPR'23, June 2023.
32. Invited speaker at Bavarian International Conference on AI, Munich, February 2023.
33. Invited speaker at Neurips 2022 Workshop on Vision Transformers: Theory and Applications, virtual, December 2022.
34. Keynote talk at TrecVid 2022, virtual, December 2022.
35. Keynote speaker at ACCV 2022, virtual, December 2022.
36. Keynote talk at the 2nd edition of the 3IA Doctoral Workshop, Grenoble, November 2022.
37. Invited speaker at the Czech-French AI Workshop, Prague, September 2022.
38. Invited speaker at the BIFOLD opening event, Berlin, September 2022.
39. Invited speaker at the Long-form Video Understanding Workshop, in conjunction with CVPR'22, virtual, June 2022.
40. Invited speaker at 5th Multimodal Learning and Applications Workshop, in conjunction with CVPR'22, virtual, June 2022.
41. Keynote speaker at ICLR 2022, virtual, April 2022.
42. Invited speaker at Prairie workshop, Paris, November 2021.
43. Keynote ACM Multimedia 2021, virtual, October 2021.
44. Invited speaker at 4th Workshop on Closing the Loop Between Vision and Language, in conjunction with ICCV'21, virtual, October 2021.
45. Invited speaker at 2nd Autonomous Vehicle Vision Workshop, in conjunction with ICCV'21, virtual, October 2021.

46. Invited speaker at Workshop on Computer Vision for the Factory Floor, in conjunction with ICCV'21, virtual, October 2021.
47. Invited speaker at Workshop on Large-Scale Holistic Video Understanding, in conjunction with CVPR'21, virtual, June 2021.
48. Invited speaker at Frontiers of Monocular 3D Perception workshop, in conjunction with CVPR'21, virtual, June 2021.
49. Invited speaker at 2nd Comprehensive Tutorial in Video Modeling, in conjunction with CVPR'21, virtual, June 2021.
50. Invited speaker at French-German Machine Learning Symposium, virtual, May 2021.
51. Turing lecture, virtual, May 2021.
52. Milner lecture, November 2020.
53. Keynote speaker at France is AI, November 2020.
54. Invited speaker at Tracking and its many Guises Workshop, in conjunction with ECCV, virtual, August 2020.
55. Invited speaker at Multi-modal Video Analysis Workshop, in conjunction with ECCV, virtual, August 2020.
56. Keynote speaker at Computer Vision and Deep Learning Summit “Machines Can See”, virtual, June 2020.
57. Keynote speaker at GdR ISIS, virtual, June 2020.
58. Keynote speaker at ICRA, virtual, June 2020.
59. Keynote speaker at Applied Machine Learning Days, Imaging Track, Lausanne, January 2020.
60. Invited speaker at BMVA symposium in Video Understanding, London, September 2019.
61. Keynote speaker at BMVC'19, Cardiff, UK, September 2019.
62. Keynote speaker at SIGIR'19, Paris, July 2019.
63. Invited speaker at Computer Vision after 5 Years, in conjunction with CVPR'19, June 2019.
64. Invited speaker at Tutorial on Unifying Human Activity Understanding, in conjunction with CVPR'19, June 2019.
65. Invited speaker at Facebook AI Video Summit, Los Angeles, June 2019.
66. Keynote speaker at AI Experts Workshop in conjunction with the AI for Good Global Summit, Geneva, May 2019.
67. Invited speaker at Women in Data Science Conference, Zürich, April 2019.
68. Invited speaker at collège de France seminar (chair of Stephane Mallat), February 2019.
69. Invited speaker at the Google Multimodal Machine Perception Workshop, San Francisco, October 2018.
70. Invited speaker at 11th Perceptual Organization in Computer Vision Workshop: Action, Perception and Organization, in conjunction with ECCV 2018, September 2018.

71. Invited speaker at “What is optical flow for?” workshop, in conjunction with ECCV 2018, September 2018.
72. Invited speaker at Third International Workshop on Video Segmentation, in conjunction with ECCV 2018.
73. Keynote speaker at Deep Learning Conference, Rennes, September 2018.
74. Keynote speaker at ActivityNet workshop, in conjunction with CVPR’18, June 2018.
75. Invited talk at CVPR Good Citizen of CVPR event, in conjunction with CVPR’18, June 2018.
76. Keynote speaker at 3D Humans workshop, in conjunction with CVPR, June 2018.
77. Invited speaker at “Symposium sur l’IA à l’Académie des sciences”, Paris, February 2018.
78. Keynote speaker at ECML-PKDD 2017, Skopje, September 2017.
79. Keynote speaker at Gresti 2017, Juan-les-Pins, September 2017.
80. Invited speaker at Workshop on YouTube-8M Large-Scale Video Understanding, in conjunction with CVPR’17, July 2017.
81. Invited speaker at Women in Computer Vision Workshop, in conjunction with CVPR’17, July 2017.
82. Invited speaker at 1st Workshop on Target Re-Identification and Multi-Target Multi-Camera Tracking, in conjunction with CVPR’17, July 2017.
83. Invited speaker at Chalearn Looking at People Workshop, in conjunction with CVPR’17, July 2017.
84. Invited speaker at Frontiers of Video Technology, July 2017.
85. Invited speaker at Korean Conference on Computer Vision, Seoul, June 2017.
86. Keynote speaker at Swedish Symposium on Deep Learning, Stockholm, June 2017.
87. Invited speaker at Russian Summit “Machines Can See”, Moscow, June 2017.
88. Invited speaker at Large-scale Computer Vision Workshop in conjunction with NIPS’16, December 2016.
89. Keynote speaker at IEEE International Conference on Image Processing, Phoenix, September 2016.
90. Invited speaker at Robust Features Workshop in conjunction with CVPR’16, June 2016.
91. Invited speaker at collège de France seminar (chair of Yann LeCun), March 2016.
92. Invited speaker at the LIG (laboratoire d’informatique de Grenoble) keynote talks, February 2016.
93. Invited speaker at the Scenes from Video Workshop, Santa Cruz, Chile, December 2015.
94. Invited speaker at the Google Deep Video Workshop, Santa Cruz, USA, November 2015.
95. Invited speaker at the Human Robot Interaction Workshop at UC Berkeley, November 2015.

96. Invited speaker at workshop on pose recovery, action recognition, and cultural event recognition, in conjunction with CVPR'15, June 2015.
97. Invited speaker at the ERC Workshop on Research Data Management and Sharing, September 2014.
98. Keynote speaker at Annual Workshop of the Austrian Association for Pattern Recognition, IST Austria, May 2014.
99. Keynote speaker at Netherlands Conference on Computer Vision, April 2014.
100. Invited speaker at First French-German Mathematical Image Analysis Conference, Paris, January 2014.
101. Keynote talk at The First International Workshop on Action Recognition with a Large Number of Classes, in conjunction with ICCV '13, Sydney, Australia, December 2013.
102. ICCV area chair meeting workshop, Oxford University, August 2013.
103. Keynote speaker at 14th International Workshop on Image and Audio Analysis for Multimedia Interactive Services (WIAMIS), Paris, July 2013.
104. Invited speaker at Second international workshop on visual analysis and geo-localizaton of large-scale imagery in conjunction with CVPR'13, June 2013.
105. CVPR area chair meeting workshop, USC, February 2013.
106. Keynote speaker at GdR ISIS, Le Touquet, November 2012.
107. First international workshop on visual analysis and geo-localizaton of large-scale imagery in conjunction with ECCV'12, Florence, October 2012.
108. Keynote speaker at the International Symposium on Visual Computing, Crete, July 2012.
109. Keynote speaker at ACM International Conference on Multimedia Retrieval (ICMR), Hong Kong, June 2012.
110. Workshop on Large Scale Multimedia Search, Los Angeles, January 2012.
111. NIPS satellite WiML Workshop, Granada, December 2011.
112. Symposium on Applied Perception in Graphics and Visualization, Toulouse, August 2011.
113. Frontiers in Computer Vision Workshop, MIT, August 2011.
114. Keynote speaker at Compression et représentation des signaux audiovisuels (Coresa 2010), Lyon, October 2010.
115. Oxford vision workshop, July 2010.
116. ECCV area chair colloquium, Paris, June 2010.
117. CVPR area chair meeting workshop, University of Maryland, February 2010.
118. International Workshop on Recent Trends in Computer Vision, Kyoto, Japan, June 2009.
119. International Workshop on Video, Barcelona, Spain, May 2009.
120. Keynote speaker at the Conference on Machine Vision Applications, Yokohama, Japan, May 2009.

121. Keynote speaker at BMVC'08, Leeds, UK, September 2008.
122. ECCV area chair symposium, Paris, June 2008.
123. International Workshop on Computer Vision, Venice, Italy, May 2008.
124. 4th International Workshop on Object Categorization, in conjunction with ICCV'07, Rio de Janeiro, Brazil, October 2007.
125. MIRU International Workshop on Computer Vision, Hiroshima, Japan, July 2007.
126. 2nd Beyond Patches Workshop in conjunction with CVPR'07, June 2007.
127. Annual Workshop of the Austrian Association for Pattern Recognition (OEAGM'07), Schloss Krumbach, Austria, May 2007.
128. CVPR area chair meeting workshop, Pittsburgh, USA, March 2007.
129. LIAMA's 10th Anniversary Workshop, Beijing, China, January 2007.
130. International Workshop on Object Recognition, Syracuse, Italy, September 2006.
131. TAIMA 2005, Hammamet, Tunisia, September 2005.
132. Empirical Inference Symposium, Tuebingen, August 2005.
133. ICCV Area Chair Meeting Workshop, Leuven, June 2005.
134. MSRI workshop on Visual Recognition, Berkeley, USA, March 2005.
135. CVPR area chair meeting workshop, Los Angeles, February 2005.
136. International Workshop on Object Recognition, Taormina, Sicily, Italy, October 2004.
137. PASCAL Workshop on Pattern Recognition and Machine Learning, Grenoble, May 2004.
138. Cognitive Computer Vision Colloquium, Prague, January 2004.
139. International Workshop on Object Recognition, Taormina, Sicily, Italy, September 2003.
140. Workshop on Computational Vision, Rosendal, Sweden, July 2003.
141. The Learning Workshop, Snowbird, Utah, April 2003.
142. The 4th Sino-Franco Workshop on Web Technologies, Taipei, Taiwan, March 2003.
143. Workshop at the area chair meeting, Lund, February 2002.
144. Dagstuhl-Seminar on Content-Based Image and Video Retrieval, Dagstuhl, January 2002.
145. Inria statistics seminar, Rennes, November 2001.
146. GDR-GT10 Indexation Multimedia, Paris, France, May 2001.
147. The Learning Workshop, Snowbird, Utah, April 2001.
148. Beckman Institute vision workshop, Urbana-Champaign, February 2000.

Invited presentations at universities and companies

1. Presentation at Malik Fest, University of California, Berkeley, October 2025.
2. Presentation at Ellis workshop, Bad Teinach, April 2025.
3. Presentation at Computer Vision Day in conjunction with Gul Varol's HdR, November 2024.
4. Presentation at Studierendenseminar, Karlsruhe, October 2024.
5. Presentation at Helmholtz Centrum München, Munich, July 2024.
6. Presentation at TUM, Garching, Munich, July 2024.
7. Presentation at Ellis workshop, Modena, April 2024.
8. Presentation at Prairie scientific workshop, Paris, April 2024.
9. Presentation at Google retreat, Grenoble, March 2024.
10. ONE MUNICH Distinguished Lecture on AI & Robotics, Munich, January 2024.
11. Talk at YouTube Machine Learning summit, Google, virtual, December 2023.
12. Invited talk at the MPI Summer Colloquium, Tübingen, July 2023.
13. Seminar at Ellis workshop, Metzingen, May 2023.
14. Invited speaker at soirée networking Prairie, January 2023.
15. Seminar at MPI Tübingen, October 2022.
16. Presentation at the Stanford University HAI Spring Conference, virtual, April 2022.
17. Talk at the inaugural Multipod Summit, Google, virtual, June 2021.
18. Talk at Academie des technologies, virtual, March 2021.
19. Talk at EPFL Center of Intelligent Systems - CIS Colloquium, virtual, March 2021.
20. Talk at inaugural Bell Labs webinar on Prairie research, December 2020.
21. Talk at Google Research All Hands, virtual, August 2020.
22. Talk at Inria/EPFL workshop, Grenoble, January 2020.
23. Talk at Google EMEA research days, Zurich, December 2019.
24. Talk at Workshop on AI for Robotics, Naver, Grenoble, November 2019.
25. Talk at Google Research EMEA meeting, virtual, November 2019.
26. Talk at Workshop - Robotics: a Challenge for the Artificial Intelligence, Toulouse, October 2019.
27. Presentation at Prairie inauguration, Paris, October 2019.
28. Seminar at DeepMind, London, September 2019.
29. Seminar at Intel Network on Intelligent Systems, Munich, September 2019.

30. Seminar at Ellis workshop, September 2019.
31. Seminar at MPI Tübingen, July 2019.
32. Seminar at WILLOW/SIERRA retreat, Marseille, June 2019.
33. Seminar at Google MTV, April 2019.
34. Seminar at ETH Zürich, March 2019.
35. Presentation at “Prairie/industry meeting”, Paris, December 2018.
36. Presentation at Google workshop on 3D Deep Learning, October 2018.
37. Seminar for AI residents, Google MTV, June 2018.
38. Seminar at MPI Tübingen, April 2018.
39. Seminar at Google Zürich, April 2018.
40. Seminar at Google Mountain View, March 2018.
41. Seminar at Google Paris, March 2018.
42. Seminar at Leopoldina ”section meeting”, Ulm, February 2018.
43. Seminar at Intel Network on Intelligent Systems, Munich, August 2017.
44. Seminar at Berkeley University, July 2017.
45. Seminar at Toyota Research Institute, July 2017.
46. Seminar at Google, Mountain View, July 2017.
47. Seminar at DeepMind, London, June 2017.
48. Speaker at Distinguished Seminar Series in Computing, Imperial College, London, June 2017.
49. Seminar at MPI, Tübingen, May 2017.
50. Seminar at “10 ans de l’ERC à Inria”, Paris, March 2017.
51. Seminar at Google, Mountain View, July 2016.
52. Seminar at “Journées scientifiques Inria”, June 2016.
53. Seminar at Karlsruhe Technology Institute, June 2016.
54. Seminar at MPI, Tübingen, April 2016.
55. Seminar at INSA Lyon, April 2016.
56. Seminar at New York University, January 2016.
57. Seminar at Berkeley University, November 2015.
58. Seminar at Stanford University, June 2015.
59. Seminar at Google, Mountain View, June 2015.
60. Seminar at Facebook AI Research lab, New York, May 2015.

61. Seminar at CMU, Pittsburgh, May 2015.
62. Seminar at Oxford University, March 2015.
63. Seminar at Gatsby Computational Neuroscience Unit, London, March 2015.
64. Seminar at MPI, Tübingen, February 2015.
65. Seminar at Univ. Edinburgh, July 2014.
66. Seminar at MPI, Tübingen, April 2014.
67. Seminar at WILLOW retreat, Bandol, June 2013.
68. Seminar at UCF, Orlando, May 2013.
69. Seminar at MPI, Tübingen, January 2013.
70. Seminar at University of Berkeley, December 2012.
71. Seminar at New York University, May 2012.
72. Seminar at Google, Zürich, May 2012.
73. Seminar at ETHZ, Zürich, May 2012.
74. Seminar at MSR Cambridge, April 2012.
75. Seminar at MPI, Tübingen, April 2012.
76. Colloquium J. Morgenstern, Sophia-Antipolis, December 2011.
77. Seminar at New York University, July 2010.
78. Seminar at Centre de Mathématiques et de Leurs Applications, Ecole Normale Supérieure de Cachan, Paris, April 2010.
79. Seminar at CMU, Pittsburgh, September 2009.
80. Seminar at University of Texas at Austin, April 2009.
81. Seminar at Oxford University, March 2009.
82. Seminar at UCL, London, March 2009.
83. Seminar at ETHZ, Zürich, February 2009.
84. Seminar at Max Planck Institut Saarbrücken, Germany, September 2008.
85. Seminar at TU München, Germany, July 2008.
86. Seminar at LIAMA, Beijing, China, July 2008.
87. Seminar at the Advanced Computer Vision Company, Vienna, Austria, May 2007.
88. Seminar at ENS Ulm, Paris, France, October 2006.
89. Seminar at Carnegie Mellon University, Pittsburgh, August 2006.
90. Seminar at Microsoft Research, Seattle, August 2006.

91. Seminar at Xerox, Grenoble, June 2006.
92. Seminar at ETH Zurich, April 2006.
93. Seminar at UIUC, Champaign, February 2006.
94. Seminar at ENS Ulm, Paris, France, October 2005.
95. Seminar at University of Liege, Belgium, February 2005.
96. Seminar at University of Illinois, Urbana-Champaign, January 2005.
97. Seminar at Max Planck Institut Tuebingen, Germany, December 2004.
98. Vision Seminar at Berkeley University, April 2004.
99. Presentation at Toyota, Tokyo, Japan, May 2003.
100. Vision Seminar at University of Illinois, Urbana-Champaign, October 2002.
101. Vision Seminar at University of Illinois, Urbana-Champaign, October 2001.
102. Vision Seminar at Berkeley University, USA, January 2000.
103. Microsoft Research Labs, Redmond, Washington, March 1999.

Tutorials and courses

1. Course at Prairie artificial intelligence summer school (PAIIS), virtual, July 2021.
2. Course at APAC Graduate Symposium, virtual, March 2021.
3. Course on action recognition at Pairie artificial intelligence summer school (PAIIS), Paris, October 2019.
4. Course on action recognition at the Data Science Summer School, Paris, June 2019.
5. Course on action recognition at PRAIRIE Artifical Intelligence Summer School, Grenoble, July 2018.
6. Tutorial on action recognition at the Winter School in Computer Vision, Jerusalem, January 2017.
7. Course on action recognition at Computational Vision Summer School, Freudenstadt, Germany, July 2015.
8. Tutorial on image search and classification at the Inria Visual Recognition and Machine Learning Summer School, Paris, July 2013.
9. Tutorial on visual recognition for a group of high-school teachers, INRIA Grenoble, March 2013.
10. Tutorial on modern features at ECCV 2012, Florence, October 2012.
11. Tutorial on image search and classification at the Inria Visual Recognition and Machine Learning Summer School, Grenoble, July 2012.

12. Tutorial on image search and classification at the ENS-Inria Visual Recognition and Machine Learning Summer School, Paris, July 2011.
13. Lecture on local features and large scale search at the 3e cycle romand d'informatique, Geneva, Switzerland, February 2011.
14. Tutorial on image features, search and classification at the Winter Research School at ENS Lyon, January 2011.
15. Tutorial on image search and classification at the Inria Visual Recognition and Machine Learning Summer School, Grenoble, July 2010.
16. Tutorial on images features and object recognition, Lotus Hill Summer School on Computer Vision, Ezhou, China, July 2008.
17. Tutorial on local features and recognition, International Summer School on Computer Vision, Aci Trezza, Sicily, Italy, July 2007.
18. Tutorial on invariant local features, AERFAI Summer School on Action and Object Classification Techniques in Digital Images, Granada, Spain, June 2006.
19. Course on local descriptor and recognition, MIT, Boston, USA, December 2005.
20. Course on local features and recognition, Oulu University, May 2005.
21. Short-course on local features, IEEE Conference on Computer Vision and Pattern Recognition, June 2003.
22. Tutorial on recognition and image retrieval, Summer School Vision and Robotics, Toulouse, July 2002.
23. Tutorial on recognition and image retrieval, Summer School Vision and Robotics, Grenoble, July 2000.

Publications

The two main journals of computer vision are the International Journal on Computer Vision (IJCV) and the IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), both with acceptance rates below 30%. The three main conferences are the IEEE International Conference on Computer Vision (ICCV), the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) and the European Conference on Computer Vision (ECCV). These three conferences are very selective; in general, less than 25% of the articles submitted are accepted. Their proceedings play a role that is as important as international journals. This also holds for related areas such as Machine Learning, Natural Language Processing, and Robotics.

According to Google Scholar my h-index is 160 and the total number of citations for my publications is more than 165,000.

Journal articles

1. D. Kang, A. Iscen, E. Jo, S. Choi, M. Cho, C. Schmid. Memory-Modular Classification: Learning to Generalize with Memory Replacement. *Transactions on Machine Learning Research*, March 2025.
2. L. Ventura, C. Schmid and G. Varol. Learning text-to-video retrieval from image captioning. *International Journal of Computer Vision*, 133:1834–1854, 2025.
3. L. Ventura, A. Yang, C. Schmid and G. Varol. CoVR-2: Automatic Data Construction for Composed Video Retrieval. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 46(12):11409-11421, 2024.
4. Q. Le Lidec, W. Jallet, L. Montaut, I. Laptev, C. Schmid and J. Carpentier. Contact models in robotics: A comparative analysis. *IEEE Transactions on Robotics*, 40:3716-3733, 2024.
5. Q. Le Lidec, F. Schramm, L. Montaut, C. Schmid, I. Laptev and J. Carpentier. Leveraging randomized smoothing for optimal control of nonsmooth dynamical systems. *Nonlinear Analysis: Hybrid Systems*, volume 52, May 2024.
6. P. Bideau, E. Learned-Miller, C. Schmid and K. Alahari. The right spin: Learning object motion from rotation-compensated flow fields. *International Journal of Computer Vision*, 132:40-55, 2024.
7. A. Yang, A. Miech, J. Sivic, I. Laptev and C. Schmid. Learning to answer visual questions from web videos. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 47(5):3202-3218, 2025.
8. Q. Le Lidec, I. Kalevatykh, I. Laptev, C. Schmid and J. Carpentier. Differentiable simulation for physical system identification. *IEEE Robotics and Automation Letters*, 6(2): 3413-3420, 2021.
9. G. Varol, I. Laptev, C. Schmid and A. Zisserman. Synthetic humans for action recognition from unseen viewpoints. *International Journal of Computer Vision*, 129 (7): 2264–2287, 2021.
10. N. Dvornik, J. Mairal and C. Schmid. On the importance of visual context for data augmentation in scene understanding. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 43 (6):2014-2028, 2021.

11. G. Rogez, P. Weinzaepfel and C. Schmid. LCR-Net++: Multi-person 2D and 3D pose detection in natural images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 42(5):1146-1161, 2020.
12. P. Tokmakov, C. Schmid and K. Alahari. Learning to segment moving objects. *International Journal of Computer Vision*, 127(3):282-301, 2019.
13. G. Rogez and C. Schmid. Image-based synthesis for deep 3D human pose estimation. *International Journal of Computer Vision*, 126(9):993-1008, 2018.
14. N. Chesneau, K. Alahari and C. Schmid. Learning from web videos for event classification. *IEEE Transactions on Circuits and Systems for Video Technology*, 28(10):3019-3029, 2018.
15. B. Ham, M. Cho, C. Schmid and J. Ponce. Proposal flow: Semantic correspondences from object proposals. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 40(7):1711-1725, 2018.
16. G. Varol, I. Laptev, C. Schmid. Long-term convolutions for action recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 40(6):1510-1517, 2018.
17. M. Paulin, J. Mairal, M. Douze, Z. Harchaoui, F. Perronnin and C. Schmid. Convolutional patch representations for image retrieval: an unsupervised approach. *International Journal of Computer Vision*, 121(1):149-168, 2017
18. G. Sharma, F. Jurie and C. Schmid. Expanded parts model for semantic description of humans in still images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 39(1):87-101, 2017.
19. G. Cinbis, J. Verbeek and C. Schmid. Weakly supervised object localization with multi-fold multiple instance learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 39(1):189-203, 2017.
20. J. Revaud, P. Weinzaepfel, Z. Harchaoui and C. Schmid. DeepMatching: Hierarchical deformable dense matching. *International Journal of Computer Vision*, 120(1):300-323, 2016.
21. V. Kalogeiton, V. Ferrari and C. Schmid. Analysing domain shift factors between videos and images for object detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(11):2327-2334, 2016.
22. M. Douze, J. Revaud, J. Verbeek, H. Jegou, C. Schmid. Circulant temporal encoding for video retrieval and temporal alignment. *International Journal of Computer Vision*, 119(3):291-306, 2016.
23. Z. Akata, F. Perronnin, Z. Harchaoui and C. Schmid. Label-embedding for image classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(7):1425-1438, 2016.
24. G. Cinbis, J. Verbeek and C. Schmid. Approximate Fisher kernels of non-iid image models for image categorization. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(6):1084-1098, 2016.
25. H. Wang, D. Oneata, J. Verbeek and C. Schmid. A robust and efficient video representation for action recognition. *International Journal of Computer Vision*, 119(3):219-238, 2016.
26. A. Gaidon, Z. Harchaoui and C. Schmid. Activity representation with motion hierarchies. *International Journal of Computer Vision*, 107(3):219-238, 2014.

27. Z. Akata, F. Perronnin, Z. Harchaoui and C. Schmid. Good practice in large-scale learning for image classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 36(3):507-520, 2014.
28. H. Wang, A. Kläser, C. Schmid and C.-L. Liu. Dense trajectories and motion boundary descriptors for action recognition. *International Journal of Computer Vision*, 103(1):60-79, 2013.
29. A. Gaidon, Z. Harchaoui and C. Schmid. Temporal localization of actions with actoms. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 35(11):2782-2795, 2013.
30. A. Prest, V. Ferrari and C. Schmid. Explicit modeling of human-object interactions in realistic videos. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 35(4):835-848, 2013.
31. A. Prest, C. Schmid and V. Ferrari. Weakly supervised learning of interactions between humans and objects. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 34(3):601-614, 2012.
32. H. Jegou, F. Perronnin, M. Douze, J. Sanchez, P. Perez and C. Schmid. Aggregating local image descriptors into compact codes. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 34(9):1704 - 1716, 2012.
33. M. Guillaumin, T. Mensink, J. Verbeek, C. Schmid. Face recognition from caption-based supervision. *International Journal of Computer Vision*, 96 (1):64-82, 2012.
34. M. Marszalek and C. Schmid. Accurate Object Recognition with Shape Masks. *International Journal of Computer Vision*, 97(2):191-209, 2012.
35. H. Jegou, M. Douze and C. Schmid. Product quantization for nearest neighbor search. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 33(1):117–128, 2011.
36. H. Jegou, M. Douze and C. Schmid. Improving bag-of-features for large scale image search. *International Journal of Computer Vision*, 87(3):316–336, 2010.
37. M. Douze, H. Jegou and C. Schmid. An image-based approach to video copy detection with spatiotemporal post-filtering. *IEEE Transactions on Multimedia*, 12(4):257–266, 2010.
38. V. Ferrari, F. Jurie and C. Schmid. From images to shape models for object detection. *International Journal of Computer Vision*, 87(3):284–303, 2010.
39. H. Jegou, C. Schmid, H. Harzallah and J. Verbeek. Accurate image search using the contextual dissimilarity measure. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 32(1):2-11, 2010.
40. M. Heikkila, M. Pietikainen and C. Schmid. Description of interest regions with local binary patterns. *Pattern Recognition*, 42(3):425-436, 2009.
41. J. van de Weijer, C. Schmid, J. Verbeek and D. Larlus. Learning color names for real world applications. *IEEE Transactions on Image Processing*, 18(7):1512-1523, 2009.
42. P. Carbonetto, G. Dorko, C. Schmid, H. Kueck and N. de Freitas. Learning to recognize objects with little supervision. *International Journal of Computer Vision*, 77(1):219-238, 2008.

43. V. Ferrari, L. Fevrier, F. Jurie and C. Schmid. Groups of adjacent contour segments for object detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 30(1):36-51, 2008.
44. C. Bouveyron, S. Girard and C. Schmid. High-dimensional data clustering. *Computational Statistics and Data Analysis*, 52(1):502-519, 2007.
45. J. Zhang, M. Marszalek, S. Lazebnik and C. Schmid. Local features and kernels for classification of texture and object categories: a comprehensive study. *International Journal of Computer Vision*, 73(2):213-238, 2007.
46. F. Rothganger, S. Lazebnik, C. Schmid and J. Ponce. Segmenting, modeling and matching video clips containing multiple moving objects. In *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 29(3):477-491, 2007.
47. C. Bouveyron, S. Girard and C. Schmid. High-dimensional discriminant analysis. *Communications in Statistics: Theory and Methods*, vol. 36(14):2607-2623, 2007.
48. F. Rothganger, S. Lazebnik, C. Schmid, and J. Ponce. Object modeling and recognition using local affine-invariant image descriptors and multi-view spatial constraints. *International Journal of Computer Vision*, 66(3):231-260, 2006.
49. K. Mikolajczyk, T. Tuytelaars, C. Schmid, A. Zisserman, J. Matas, F. Schaffalitzky, T. Kadir and L. Van Gool. A comparison of affine region detectors. *International Journal of Computer Vision*, 65(1/2):43-72, 2005.
50. S. Lazebnik, C. Schmid and J. Ponce. A sparse texture representation using local affine regions. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 27(8):1265-1278, 2005.
51. K. Mikolajczyk and C. Schmid. A performance evaluation of local descriptors. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 27(10):1615-1630, 2005.
52. K. Mikolajczyk and C. Schmid. Scale & affine invariant interest point detectors. *International Journal of Computer Vision*, 60(1):63-86, 2004.
53. Y. Dufournaud, C. Schmid and R. Horaud. Image matching with scale adjustment. *Computer Vision and Image Understanding*, 93(2):175-194, 2004.
54. C. Schmid. Weakly supervised learning of visual models and its application to content-based retrieval. *International Journal of Computer Vision*, 56(1):7-16, 2004.
55. R. Choudhury, C. Schmid and K. Mikolajczyk. Face detection and tracking in a video by propagating detection probabilities. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 25(10):1215-1228, 2003.
56. C. Schmid and A. Zisserman. The geometry and matching of lines and curves over multiple views. *International Journal of Computer Vision*, 40(3):199-234, 2000.
57. C. Schmid, R. Mohr and C. Bauckhage. Evaluation of interest point detectors. *International Journal of Computer Vision*, 37(2):151-172, 2000.
58. C. Schmid and R. Mohr. Local greyvalue invariants for image retrieval. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 19(5):530-534, 1997.
59. C. Schmid and R. Mohr. Mise en correspondance par invariants locaux. *Traitemet du Signal*, 13(6):591-606, 1996.

60. J. Crowley, P. Bobet and C. Schmid. Auto-calibration by direct observation of objects. *Journal of Image and Vision Computing*, 11(2):67–81, 1993.

Refereed international conferences

1. A. Arnab, A. Iscen, M. Caron, A. Fathi and C. Schmid. Dynamic Context Aggregation for Long Video QA. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.
2. R. Cadei, I. Demirel, P. De Bartolomeis, L. Lindorfer, S. Cremer, C. Schmid and F. Locatello. Causal Lifting of Neural Representations: Zero-Shot Generalization for Causal Inferences. In *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.
3. M. Wysoczańska, S. Buch, A. Arnab and C. Schmid. OVFact: Measuring and Improving Open-Vocabulary Factuality for Long Caption Models. In *Conference on Empirical Methods in Natural Language Processing (EMNLP) Findings*, 2025.
4. Z. Chen, R.A. Potamias, S. Chen and C. Schmid. HORT: Monocular Hand-held Objects Reconstruction with Transformers. In *International Conference on Computer Vision*, 2025.
5. A. Nagrani, S. Menon, A. Iscen. S. Buch, R. Mehran, N. Jha, A. Hauth, Y. Zhu, C. Vondrick, M. Sirotenko, C. Schmid and T. Weyand. Minerva: Evaluating Complex Video Reasoning. In *International Conference on Computer Vision*, 2025.
6. E. Kazakos, C. Schmid and J. Sivic. Large-scale Pre-training for Grounded Video Caption Generation. In *International Conference on Computer Vision*, 2025.
7. S. Gode, A. Nayak, D. Oliveira, M. Krawez, C. Schmid and W. Burgard. FlowNav: Combining Flow Matching and Depth Priors for Efficient Navigation. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2025.
8. P. Ghosh, S. Sanyal, C. Schmid and B. Schölkopf. RAVEN: Rethinking Adversarial Video Generation with Efficient Tri-Plane Networks. In *IEEE International Conference on Image Processing (ICIP)*, 2025.
9. M. Futrel, A. R. Zebaze, P. O. Suarez, J. Abadji, R. Lacroix, C. Schmid, R. Bawden and B. Sagot. mOSCAR: A Large-scale Multilingual and Multimodal Document-level Corpus. In *Association for Computational Linguistics (ACL) Findings*, 2025.
10. R. Garcia, S. Chen and C. Schmid. Towards Generalizable Vision-Language Robotic Manipulation: A Benchmark and LLM-guided 3D Policy. In *IEEE International Conference on Robotics and Automation (ICRA)*, 2025.
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